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(54) Abstract Title: Remapping component facilitating a link between an executable and a function held in an extension dynamic link library.

(57) A remapping component is provided for facilitating a link between an executable and a function held in a new dynamic link library (DLL) in a computing device. The remapping component is provided with a relocation instruction arranged to update, upon loading, an export data table entry for the remapping component with the address location of the function in the new dynamic link library. In this way, the executable, when calling for the function at an address location in a known DLL, will automatically jump to the address location for the function in the new DLL. The additional subroutines usually associated with remapping DLLs can therefore be avoided, providing improved operation for the computing device.

A	export 1 = 7
A+1	export 2 = ?
A+2	export 3 = ?
Release	ations
	of A to be contents of sport 3 in new.dli
Set A+1 to be contents of	

Fig. 3.

Executable		Remapping Component	new.dil	
1000	cell 1009	2000 export 1 = ?	3000 export f = 3019	
1009	jump to address in	2001 export 2 = ?	3001 export 2 = 3000	
	1010	2002 export 3 = ?	3002 export 3 = 3027	
1010	deta = ?	set 2000 to be contents of export 3 in new.dli		
	10 tó be its of export 1 inel:dl		3027 <instructions to<br="">implement foo()</instructions>	

Executable		Remapping Component	new.dll	
1000	cell 1009	2000 export 1 = 3027	3000 export 1 = 3019	
1009	jump to	2001 export 2 = 3005	3001 export 2 = 3006	
	in 1010	2002 export 3 = 4011	3002 export 3 = 3027	
1010	data = 3027		3027 <instructions foo()<="" implement="" td="" to=""></instructions>	

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Application No: Claims searched: GB 0325146.9

Examiner: Date of search: Dr Mark Shawcross 22 March 2004

Patents Act 1977: Search Report under Section 17

Documents considered to be relevant:

Category	Relevant to claims	Identity of document and passage or figure of particular relevance	
х	1-5 & 8-9	US 6629123 B1	(HUNT); col.3 line 59 to col.4 line 45 & col.10 lines 36-45
х	1, 4-5 & 8- 9	US 6442752 B1	(JENNINGS et al.); abstract & col.4 line 17 to col.5 line 37 & fig.12
х	1 & 7-9	EP 0908817 A	(KABUSHIKI); paras [0009-0013] & figs 2-4
х	1 & 8-9	GB 2354851 A	(IBM); page 8 lines 5-29 & fig.1
Α		US 6405316 B1	(KRISHMAN et al.); abstract, col.2 line 39 to col.3 line 15 & figs 2 & 3

Categories:

- X Document indicating lack of novelty or inventive step
- A Document indicating technological background and/or state of the art
- Occurrent indicating lack of inventive step if combined with one or more other documents of same category
- Document published on or after the declared priority date but before the filling date of this invention

 Patent document published on or after, but with priority date earlier.

Field of Search:

than, the filing date of this application

G4A

Worldwide search of patent documents classified in the following areas of the IPC7:

G06F

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